

# Comparisons of Job Characteristics

**Focus Occupation:** [Architectural and Civil Drafters \(17-3011\)](#)

**Associated Occupation:** [Architectural and Engineering Managers \(11-9041\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

<<	Focus occupation element is much lower
<	Focus occupation element is lower
0	Focus occupation element is at a similar level
>	Focus occupation element is at a higher level
>>	Focus occupation element is at a much higher level

## Knowledge

Similarity of Focus Occupation to Associated Occupation: 81

**Focus Occupation:** Architectural and Civil Drafters (17-3011)  
**Associated Occupation:** Architectural and Engineering Managers (11-9041)

Associated Occupation's Key Knowledge Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating		Evaluation of Focus Occupation
Engineering and Technology	5.7	23.2	15.2	<<	Extensive education and/or training may be required
Design	5.2	19.0	21.0	>	Current knowledge level is likely sufficient
Mathematics	9.2	17.4	13.3	<<	Extensive education and/or training may be required
Computers and Electronics	8.4	16.9	12.5	<<	Extensive education and/or training may be required
Administration and Management	8.4	14.4	5.4	<<	Extensive education and/or training may be required
Physics	4.3	13.0	6.5	<<	Extensive education and/or training may be required
Building and Construction	4.0	10.7	15.5	>>	Current knowledge level is likely more than sufficient
Production and Processing	6.0	10.7	7.6	<<	Extensive education and/or training may be required
Personnel and Human Resources	5.6	10.4	2.7	<<	Extensive education and/or training may be required
Economics and Accounting	4.4	8.1	2.3	<<	Extensive education and/or training may be required
Telecommunications	3.9	7.4	3.5	<<	Extensive education and/or training may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Skills

Similarity of Focus Occupation to Associated Occupation: 88

**Focus Occupation:** Architectural and Civil Drafters (17-3011)  
**Associated Occupation:** Architectural and Engineering Managers (11-9041)

Associated Occupation's Key Skills Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Operations Analysis	5.0	13.9	8.0	<<	Extensive development of skills in this area may be required
Coordination	9.1	13.3	9.4	<<	Extensive development of skills in this area may be required
Complex Problem Solving	9.1	13.0	9.3	<<	Extensive development of skills in this area may be required
Time Management	8.9	12.8	9.2	<<	Extensive development of skills in this area may be required
Management of Personnel Resources	6.9	12.2	7.1	<<	Extensive development of skills in this area may be required
Mathematics	6.2	11.7	11.0	0	Current skill level may be sufficient
Systems Analysis	6.5	10.7	8.3	<	A higher skill level may be required
Systems Evaluation	6.4	10.7	7.1	<<	Extensive development of skills in this area may be required
Negotiation	6.8	10.2	6.4	<<	Extensive development of skills in this area may be required
Management of Financial Resources	3.3	9.7	4.5	<<	Extensive development of skills in this area may be required
Management of Material Resources	3.7	9.2	4.6	<<	Extensive development of skills in this area may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

Abilities		Similarity of Focus Occupation to Associated Occupation: 93			
Focus Occupation: Architectural and Civil Drafters (17-3011)					
Associated Occupation: Architectural and Engineering Managers (11-9041)					
Associated Occupation's Key Abilities Elements	Average Rating, All Occupations	Associated Occupation's Rating	Focus Occupation's Rating	Evaluation of Focus Occupation	
Written Comprehension	11.0	15.2	12.6	<	Some improvement in abilities may be required
Oral Comprehension	12.5	15.0	12.7	<	Some improvement in abilities may be required
Deductive Reasoning	10.6	13.9	10.6	<<	Extensive improvement in abilities may be required
Problem Sensitivity	11.1	13.9	11.5	<	Some improvement in abilities may be required
Written Expression	9.8	13.8	11.2	<	Some improvement in abilities may be required
Mathematical Reasoning	6.3	13.3	10.1	<<	Extensive improvement in abilities may be required
Information Ordering	9.9	12.0	11.5	0	Current ability level may be sufficient
Category Flexibility	9.0	11.4	10.1	<	Some improvement in abilities may be required
Number Facility	6.3	11.2	8.5	<<	Extensive improvement in abilities may be required

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Activities that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 70

**Focus Occupation: Architectural and Civil Drafters (17-3011)**  
**Associated Occupation: Architectural and Engineering Managers (11-9041)**

Work Activities	Exclusivity of Activity
Communicate technical information	4
Direct and coordinate activities of workers or staff	3
Evaluate engineering data	60
Prepare cost estimates	77
Prepare technical reports or related documentation	22
Read blueprints	10
Read schematics	34
Read technical drawings	7
Understand engineering data or reports	48
Understand technical operating, service or repair manuals	6
Write business project or bid proposals	48

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.

## Tools and Technologies that Both Occupations Have in Common

Similarity of Focus  
Occupation to Associated  
Occupation: 67

**Focus Occupation: Architectural and Civil Drafters (17-3011)**  
**Associated Occupation: Architectural and Engineering Managers (11-9041)**

Tools and Technologies	Exclusivity
Business function specific software	1
Computer data input devices	2
Computers	1
Content authoring and editing software	1
Content management software	6
Data management and query software	1
Industry specific software	1
Information exchange software	1

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O\*NET (Occupation Information Network) data.